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510(k) Summary of Safety and Effectiveness Information Sysmex ® Automated Coagulation Analyzer CA-6000 April 7, 2000

Dade Behring Inc. 7739 NW 48th Street Miami, FL 33166

Contact Person: Radames Riesgo at 305.392.5639 or by facsimile at 305.392.5638.

Trade or Proprietary Name: Sysmex® Automated Coagulation Analyzer CA-6000

Common or Usual Name: Automated Coagulation Instruments

Classification Name: Coagulation instrument (21 CFR §864.5400)

Registration Number: Manufacturing Site
Sysmex Corporation

Kobe, Japan 9613959

Importer

Sysmex Corporation of America

One Wildlife Way

Long Grove, IL 60047-9596 1422681

Distributor

Dade Behring Inc. Glasgow Site P.O. Box 6101

Newark, DE 19714-6101 2517506

The CA-6000 is substantially equivalent in intended use to the ACL Coagulation System Model 3000, manufactured by Instrumentation Laboratory Co., Lexington, MA 02421. The ACL Systems were originally cleared under Document Control No. K912087. Subsequently, the ACL Model 300 of the ACL Hundred/Thousand Series was used to support the 510(k) clearance processes for LA-SCREEN and LA-CONFIRM under Document Control Nos. K922326 and K922156, respectively.

As demonstrated by clinical correlation studies, the performance claims of the proposed device are similar to the predicate device. During those studies, specimens were evaluated from apparently healthy individuals and from patients with different pathological conditions which are expected to affect the results for a particular assay. The following summary shows the results of the comparison studies between the proposed and the predicate devices.

Summary of Method Comparison Studies between CA-6000 and ACL 3000

Test	Sample Number (n)	Coefficient of Correlation (r)	Regression Equation
LA1 Screening Reagent (seconds)	80	0.990	Y = 1.07X + 7.62
LA2 Confirmation Reagent (seconds)	90	0.981	Y = 1.16X + 5.31
LA1/LA2 Ratio	80	0.989	Y = 0.83X + 0.14
LA1 Screening Reagent (normalized)	80	0.990	Y = 0.84X + 0.17
LA2 Confirmation Reagent (normalized)	90	0.981	Y = 0.89X + 0.13
LA1/LA2 Ratio (normalized)	80	0.989	Y = 0.85X + 0.12

Summary of Precision Studies Sysmex® Automated Coagulation Analyzer CA-6000

Assay	Control Level	n	Mean	Within Run %CV	Betwee n Run %CV	Total %CV	Max. Error Criteria %CV
LA1 Screening Reagent	CPN	40	38.1	2.1	1.8	2.7	. 10
	PP	40	62.6	1.2	1.7	2.0	
LA2 Confirmation Reagent	CPN	40	32.8	1.2	1.5	1.9	10
	PP	40	48.8	0.5	1.1	1.2	
LA1/LA2 Ratio	CPN	40	1.2	1.2	0.7	1.3	10
	PP	40	1.3	1.2	1.0	1.5	



DEPARTMENT OF HEALTH & HUMAN SERVICES

MAY 1 1 2000

Food and Drug Administration 2098 Gaither Road Rockville MD 20850

Mr. Radames Riesgo Manager, Regulatory Affairs Biology DADE BEHRING, INC. 7739 NW 48th Street, Suite 120 Miami, Florida 33166

Re: K001145

Trade Name: Sysmex® Automated Coagulation Analyzer CA-6000

Regulatory Class: II Product Code: GKP Dated: April 7, 2000 Received: April 10, 2000

Dear Mr. Riesgo:

We have reviewed your Section 510(k) notification of intent to market the device referenced above and we have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

If your device is classified (see above) into either class II (Special Controls) or class III (Premarket Approval), it may be subject to such additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 895. A substantially equivalent determination assumes compliance with the Current Good Manufacturing Practice requirements, as set forth in the Quality System Regulation (QS) for Medical Devices: General regulation (21 CFR Part 820) and that, through periodic QS inspections, the Food and Drug Administration (FDA) will verify such assumptions. Failure to comply with the GMP regulation may result in regulatory action. In addition, FDA may publish further announcements concerning your device in the Federal Register. Please note: this response to your premarket notification submission does not affect any obligation you might have under sections 531 through 542 of the Act for devices under the Electronic Product Radiation Control provisions, or other Federal laws or regulations.

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This letter will allow you to begin marketing your device as described in your 510(k) premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus, permits your device to proceed to the market.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801 and additionally 809.10 for in vitro diagnostic devices), please contact the Office of Compliance at (301) 594-4588. Additionally, for questions on the promotion and advertising of your device, please contact the Office of Compliance at (301) 594-4639. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21CFR 807.97). Other general information on your responsibilities under the Act may be obtained from the Division of Small Manufacturers Assistance at its toll-free number (800) 638-2041 or (301) 443-6597 or at its internet address "http://www.fda.gov/cdrh/dsma/dsmamain.html".

Sincerely yours,

Steven I. Gutman, M.D., M.B.A.

Director

Division of Clinical Laboratory Devices

Steven Butman

Office of Device Evaluation

Center for Devices and Radiological Health

Enclosure

510(k) Number (if known):							
Device Name: Sysmex® Automated Coagulation Analyzer CA-6000							
Indications for Use:							
The intended use of the Sysmex® CA-6000 is as a fully automated, computerized blood plasma coagulation analyzer for <i>in vitro</i> diagnostic use in clinical laboratories.							
The instrument uses citrated human plasma to perform the parameters:	ne following parameters and calculated						
 Clotting Analysis Parameters Prothrombin Time (PT) Activated Partial Thromboplastin Time (APTT) Fibrinogen (Clauss) Thrombin Time Lupus Anticoagulants 	 Extrinsic Factors (II, V, VII, X) Intrinsic Factors (VIII, IX, XI, XII) Batroxobin Protein C 						
Chromogenic Analysis Parameters	 Protein C Heparin α2-Antiplasmin 						
Calculated Parameters • PT Ratio • PT INR	Derived FibrinogenFactor Assays % Activity						
(PLEASE DO NOT WRITE BELOW THIS LINE - CONTINUE ON ANOTHER PAGE IF NEEDED)							
Concurrence of CDRH, Office of De	evice Evaluation (ODE)						
(Division Single	Clinical Laboratory Devices						
Prescription Use OR (Per 21 CFR 801.109)	Over-The-Counter-Use (Optional Format 1-2-96)						